

**AMENDMENTS TO THE CLAIMS**

Pursuant to 37 C.F.R. §1.121 the following listing of claims will replace all prior revisions, and listings, of claims in the application.

Claims 1- 8 (Cancelled)

Claim 9 (Original) A manufacturing method for a perpendicular magnetic recording medium, comprising:

forming an anti-ferromagnetic layer on a non-magnetic substrate;

forming a soft magnetic layer on said anti-ferromagnetic layer;

forming a magnetic recording layer on said soft magnetic layer;

forming a protective layer on said magnetic recording layer;

forming a liquid lubricant layer on said protective layer;

said anti-ferromagnetic layer is an Mn alloy containing at least Co at 10 atomic % or greater and 50 atomic % or less;

during film formation of at least said anti-ferromagnetic layer and said soft magnetic layer, applying a magnetic field of 796 A/m (10 Oe) or greater that is parallel to a radial direction of said non-magnetic substrate.

Claim 10 (Original) A manufacturing method for a perpendicular magnetic recording medium comprising:

forming an anti-ferromagnetic layer on a non-magnetic substrate;

forming a soft magnetic layer on said anti-ferromagnetic layer;

forming a magnetic recording layer on said soft magnetic layer;

forming a protective layer on said magnetic recording layer;

forming a liquid lubricant layer on said protective layer;  
said anti-ferromagnetic layer is an Mn alloy containing at least Ir at 10 atomic % or greater and 30 atomic % or less;  
during film formation of at least said anti-ferromagnetic layer and said soft magnetic layer, applying a magnetic field of 796 A/m (10 Oe) or greater that is parallel to a radial direction of said non-magnetic substrate.

Claim 11 (Original) A manufacturing method for a perpendicular magnetic recording medium as described in Claim 9, wherein said soft magnetic layer is an amorphous alloy containing Co.

Claim 12 (Original) A manufacturing method for a perpendicular magnetic recording medium as described in Claim 10, wherein said soft magnetic layer is an amorphous alloy containing Co.

Claim 13 (New) A manufacturing method for a perpendicular magnetic recording medium, comprising:

forming an anti-ferromagnetic layer on a non-magnetic substrate;  
forming a soft magnetic layer on said anti-ferromagnetic layer;  
forming a magnetic recording layer on said soft magnetic layer;  
forming a protective layer on said magnetic recording layer;  
forming a liquid lubricant layer on said protective layer;  
said anti-ferromagnetic layer consisting of an Mn alloy containing Co at 10 atomic % or greater and 50 atomic % or less;

during film formation of at least said anti-ferromagnetic layer and said soft magnetic layer, applying a magnetic field of 796 A/m (10 Oe) or greater that is parallel to a radial direction of said non-magnetic substrate.